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**5 Air launched underwater acoustic systems**

*Wapner, M.; McCann, J.;*  
OCEANS, Volume: 17, Nov 1985  
Pages:675 - 681

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## Universal Acoustic Deep Ocean Transceiver with RF Command Data Link

Wapner, M.

Sonatech, Inc.

*This paper appears in: OCEANS*

Publication Date: Sep 1986

On page(s): 466 - 471

Volume: 18

**Abstract:**

Requirements continually grow for a long life, reliable microprocessor-based transceiver to provide a multiplicity of data collection and analysis functions a relay that data to an air or surface platform. This paper discusses a system wh includes both bottom transceiver and adjunct **acoustic/RF** surface buoy. The overcomes inherent real time clock problems via unique acoustic synchronizat provides two different acoustic receivers -- one CFAR for command, data telem navigation purposes and the second for specialized signature analysis or data utilizes a multi-layer secure command structure; provides reliable built-in solid memory to record data for subsequent transmission should the application so An initial use of the transceiver alone was for a stand-alone, direct acoustic ap while used in conjunction with the full-duplex surface buoy, the system provid effective, multipurpose smart data link which drastically reduces on-station sh operating costs. Of particular interest is that the system is designed to provide friendliness and ease of operation while being extremely flexible thereby meet multiple applications.

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